

Quaternization kinetics  
Sulfation kinetics  
Sulfonation kinetics  
Transesterification kinetics  
See also related: Substitution reaction  
**Substrates (ceramic)**  
See Ceramics, substrates  
**Substrates (glass)**  
See Glass substrates  
**Subsurface air**  
See Soil gases  
**Subsurface brines**  
See Brines, subsurface  
**Subsurface waters**  
See Groundwaters  
**Subterranean clover**  
See Clover (*Trifolium subterraneum*)  
**Subterranean clover mottle virus**  
**Subterranean clover stunt virus**  
**Subthalamic nucleus**  
Valid heading during volumes 129–130 (July 1998–June 1999) only  
See Brain, subthalamic nucleus  
**Subtilin** [1393–38-0]  
  
H-L-Trp-L-Lys-  
1 2  
CH<sub>2</sub> S CH<sub>2</sub>  
NH-CH-CO-L-Glu-NH-C-CO-L-Leu-NH-CH-CO-  
3 4 5 6 7  
CH<sub>2</sub>  
  
MeCH S CH<sub>2</sub>  
NH-CH-CO-L-Pro-Gly-NH-CH-CO-L-Val-  
8 9 10 11 12  
MeCH S  
NH-CH-CO-Gly-L-Ala-L-Leu-L-Glu(NH<sub>2</sub>)-  
13 14 15 16 17  
CH<sub>2</sub>  
NH-C-CO-NH-CH-CO-L-Phe-L-Leu-L-Glu(NH<sub>2</sub>)-  
18 19 20 21 22  
CHMe  
  
MeCH S CH<sub>2</sub>  
NH-CH-CO-L-Leu-NH-CH-CO-NH-CH-CO-  
23 24 25 26  
MeCH S  
L-Asp(NH<sub>2</sub>)-NH-CH-CO-L-Lys-L-Ile-  
27 28 29 30  
CH<sub>2</sub>  
NH-C-CO-L-Lys-OH  
31 32  
CH<sub>2</sub>

**Subtilisin inhibitor SSI**  
See Proteinase inhibitor, SSI [120433–50-3]  
**Subtilolheptadecanoic acid**  
See Hexadecanoic acid, 15-methyl- [1603–03-8]  
**Subtilolpentadecanoic acid**  
See Tetradecanoic acid, 13-methyl- [2485–71-4]  
**Subtilopeptidase**  
alk. — see Subtilisin [9014–01-1]  
neutral — see Proteinase, *Bacillus subtilis* metallo- [9080–56-2]  
**Subtosan**  
See 2-Pyrrolidinone, 1-ethenyl-, polymers, homopolymer [9003–39-8]  
**Subtoxin A**  
See 6H-2,8b-Epoxyoxirena[6,7]azuleno[5,4-c]-1,3-benzodioxal-6-one, 10-(acetyloxy)-3a,3b,3c,4a,5,5a,8a,9,10,10a-decahydro-5,5a-dihydroxy-4a-(hydroxymethyl)-7,9-dimethyl-10a-(1-methylethenyl)-2-(1E,3E)-1,3-tridecaazidyl-, (2S,3aR,3bS,3cS,4aR,5S,5aS,8aR,8bR,9R,10R,10aS)- [73061–92-4]  
**Subulaurone**  
See 3(2H)-Benzofuranone, 6-hydroxy-4-methoxy-2-[(3,4,5-trihydroxyphenyl)methylene]-, (Z)- [66274–46-2]  
**Subulin**  
See 3(2H)-Benzofuranone, 6-[(4-O-(6-deoxy- $\alpha$ -L-mannopyranosyl)- $\beta$ -D-glucopyranosyl)oxy]-4-methoxy-2-[(3,4,5-trihydroxyphenyl)methylene]-, (Z)- [66274–45-1]  
**Subviral agents**  
**Succedaneolazone**  
See [6,6-Bi-4H-1-benzopyran]-4,4'-dione, 2,2',3',3'-tetrahydro-5,5',7,7'-tetrahydroxy-2,2'-bis-(4-hydroxyphenyl)-, (2S,2'Si)- [57291–00-6]  
**Succimer**  
See Butanedioic acid, 2,3-dimercapto-, (2R,3S)-rel- [304–55-2]  
**Succinaldehydamide**  
See Butanamide, 4-oxo- [27719–81-9]  
**Succinaldehydonitrile**  
See Butanenitrile, 4-oxo- [3515–93-3]  
**Succinamic acid**  
See Butanoic acid, 4-amino-4-oxo- [638–32-4]  
—, 3-amino-N-(1-carboxyethyl)-  
See Alanine,  $\alpha$ -aspartyl- [5694–27-9]  
**Succinamide**  
See Butanediamide [110–14-5]  
**Succinamidoxime**  
See Butanedimidamide, N,N"-dihydroxy- [2580–69-0]  
**Succinamopine**  
See D-Glutamic acid, N-[(1S)-3-amino-1-carboxy-3-oxopropyl]- [88194–24-5]  
**Succinamopine lactam**  
See 1-Pyrrolidinedione, 1-phenyl- [83–25-0]  
**Succinanic acid**  
See Benzoic acid, 4-oxo-4-(phenylamino)- [102–14-7]  
—, 2'-carboxy-  
See Benzoic acid, 2-[(3-carboxy-1-oxopropyl)amino]- [5694–37-1]

**Succinate STD**

See Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt [577–11-7]

**Succineed 3LN**

See Poly(oxy-1,2-ethanediyl),  $\alpha$ -(3-carboxy-1-oxosulfonylpropyl)- $\omega$ -(dodecyloxy)-, disodium salt [58450–52-5]

**Succinic acid**

See Butanedioic acid [110–15-6]

**—, epoxy-**

See 2,3-Oxiranedicarboxylic acid [3272–11-5]

**Succinic anhydride**

See 2,5-Furandione, dihydro- [108–30-5]

**—, epoxy-**

See 3,6-Dioxabicyclo[3.1.0]hexane-2,4-dione [16191–17-6]

**Succinic-coenzyme Q reductase**

See Reductase, succinate-ubiquinone [9028–11-9]

**Succinic diperoxycid**

See Butanediperoxoic acid [2279–96-1]

**Succinic monoorthoacid**

See Butanoic acid, 4,4,4-trihydroxy- [5615–77-0]

**Succinic monoperoxyacid**

See Propaneperoxoic acid, 3-carboxy- [3504–13-0]

**—, 3-methyl-**

See Butaneperoxoic acid, 3-carboxy- [5615–78-1]

**Succinimide**

See 2,5-Pyrrolidinedione [123–56-8]

**Succinimidimide**

See 2H-Pyrrol-5-amine, 3,4-dihydro-2-imino- [503–84-4]

**Succinimidine**

See 2H-Pyrrol-5-amine, 3,4-dihydro-2-imino- [503–84-4]

**Succinoadenosine**

See L-Aspartic acid, N-(9- $\beta$ -D-ribofuranosyl-9H-purin-6-yl)- [4542–23-8]

**6-Succino-5'-adenylic acid**

See L-Aspartic acid, N-(9-(5-O-phosphono- $\beta$ -D-ribofuranosyl)-9H-purin-6-yl)- [19046–78-7]

**Succinoadenylic kinosynthase**

See Synthetase, adenylosuccinate [9023–57-8]

**Succinoguanamine**

See 1,3,5-Triazine-2,4-diamine, 6,6'-(1,2-ethanediyloxy)- [4128–94-3]

**Succinohydroxamic acid**

See Butanediamide, N,N"-dihydroxy- [5615–93-0]

**Succinohydroxamidide**

See 2,5-Pyrrolidinedione, dioxime [5615–79-2]

**Succinolid**

See Oxireno[4,5]cyclo[1,2-b]furan-10,12-(1aH,10aH)-dione, 2,3,6,7,8,9,13,13a,14,14a-decahydro-1a,5,9-trimethyl-13-methylene-, (1aR,4E,9S,10aS,13aS,14aR)- [149404–02-4]

**Succinonitrile**

See Butanedinitrile [110–61-2]

**—, epoxy-**

See 2,3-Oxiranedicarbonitrile [13913–71-8]

**Succinopine**

See D-Glutamic acid, N-[(1S)-1,2-dicarboxyethyl]- [90245–73-1]

**Succinopine lactam**

See Butanedioic acid, [(2R)-2-carboxy-5-oxo-1-pyrrolidinyl]-, (2S)- [89444–69-9]

**Succinoisocitric acid**

See 1,4-Cyclohexanedicarboxylic acid, 2,5-dioxo- [490–93-7]

**Succinoyl peroxide**

See Butanoic acid, 4,4'-dioxobis[4-oxo- [123–23-9]

**Succinoproterocetic acid**

See Butanedioic acid, esters, mono[7-carboxy-4-formyl-3,8-dihydroxy-1,6-dimethyl-11-oxo-11H-dibenzo[*a,b*],1,4-dioxepin-9-yl)methyl] ester [50484–90-7]

**Succinic acid**

See Butanoic acid, 4-[(aminocarbonylamino)-4-oxo- [5694–32-6]

**Succinylarsine**

See 2,5-Arsolanedione [4432–48-8]

**Succinylcholine chloride**

See Ethanaminium, 2,2'-(1,4-dioxo-1,4-butanediylbis(oxy))bis[N,N,N'-trimethyl-, dichloride [71–27-2]

**Succinyl coenzyme A**

See Coenzyme A, esters, S-(hydrogen butanedioate) [604–98-8]

**Succinyl coenzyme A-citramalyl coenzyme A**

See Coenzyme A-transferase, citramalate [9033–60-7]

**O-Succinylhomoserine synthetase**

See Synthase, cystathionine  $\gamma$ - [9030–70-0]

**Succinylsulfathiazole**

See Butanoic acid, 4-oxo-4-[(2-thiazolylamino)sulfonyl]phenylamino- [116–43-8]

**Succinyltrialanine p-nitroanilide hydrolase**

See Amidase, succinyltrialanine aryl- [72855–17-5]

**Succinylamine**

See Butanoic acid, 4-(diethylamino)-4-oxo-, 2-(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-7H-purin-7-yl)ethyl ester [12712–75-3]

**Succinsulfone**

See Butanoic acid, 4-[(4-aminophenyl)sulfonyl]phenylamino-4-oxo- [5934–14-5]

**Succulentoside A**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-22-hydroxy-3,16-bis( $\beta$ -D-xylopyranosyloxy)-A'-neogammaceran-6-yl [188839–21-6]

**Succulentoside B**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-22-hydroxy-3,16-bis( $\beta$ -D-xylopyranosyloxy)-A'-neogammaceran-6-yl [188839–22-7]

**Succulentoside C**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-6,22-dihydroxy-16-[(3-O- $\beta$ -D-xylopyranosyl)- $\alpha$ -L-arabinopyranosyloxy]-A'-neogammaceran-3-yl O- $\beta$ -D-glucopyranosyl-(1-2)-O-( $\beta$ -D-xylopyranosyl)-(1-3)- [214058–90-9]

**Succulentoside D**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-6,22-dihydroxy-16-[(3-O- $\beta$ -D-xylopyranosyl)- $\alpha$ -

L-arabinopyranosyloxy]-A'-neogammaceran-3-yl 2-O- $\beta$ -D-glucopyranosyl- [214059–16-2]

**Succulentoside E**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-16-( $\alpha$ -L-arabinopyranosyloxy)-6,22-dihydroxy-A'-neogammaceran-3-yl 3-O- $\beta$ -D-xylopyranosyl- [214059–25-3]

**Succulentoside F**

See  $\alpha$ -L-Arabinopyranoside, (3 $\beta$ ,6 $\alpha$ ,16 $\beta$ )-3,6,22-trihydroxy-A'-neogammaceran-16-yl 3-O- $\beta$ -D-xylopyranosyl- [214059–75-3]

**Suchar 681**

See Carbon [7440–44-0], activated

**Suchilactone**

See 2(3H)-Furanone, 3-(1,3-benzodioxol-5-ylmethylene)-4-[(3,4-dimethoxyphenyl)methyl]dihydro-, (3E,4S)- [50816–74-5]

**Sucker**

See such headings as

Fruit tree

Tree

**Sucker-Plucker**

See Alcohols, C<sub>6</sub>-10

**Sucker-Stuff**

See 3,6-Pyridazinedione, 1,2-dihydro-, monopotassium salt [28382–15-2]

**Suckling stage**

See Development, mammalian postnatal, preweaning

**Suclofenide**

See Benzenesulfonamide, 3-chloro-4-(2,5-dioxo-3-phenyl-1-pyrrolidinyl)- [30279–49-3]

**Suconox 4**

See Butanamide, N-(4-hydroxyphenyl)- [101–91-7]

**Suconox 18**

See Octadecanamide, N-(4-hydroxyphenyl)- [103–99-1]

**Sucralfate**

See Aluminum, hexadeca- $\mu$ -hydroxytetracosahydroxy- $[\mu_8]$ -[1,3,4,6-tetra-O-sulfo- $\beta$ -D-fructofuranosyl  $\alpha$ -D-glucopyranoside tetrakis(sulfo- $\kappa$ O')]/8-)]/hexadeca- [54182–58-0]

**Sucralose**

See  $\alpha$ -D-Galactopyranoside, 1,6-dichloro-1,6-dideoxy- $\beta$ -D-fructofuranosyl 4-chloro-4-deoxy- [56038–13-2]

**Sucrapan P**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, monohexadecanoate [26446–38-8]

**Sucrapan S**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, monooctadecanoate [25168–73-4]

**Sucraph GEMA**

See  $\beta$ -D-Glucopyranoside, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl [47087–43-4]

**Sucrase**

See

Fructofuranosidase,  $\beta$ - [9001–57-4]

Glucosidase, sucrose  $\alpha$ - [37288–39-4]

**Sucrodet**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, monohexadecanoate [26446–38-8]

**Sucroester WE 7**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, dioctadecanoate [27195–16-0]

**Sucroester WE 11**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, octadecanoate [37318–31-3]

**Sucroester WE 15**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, monohexadecanoate [26446–38-8]

**Sucro-Gel H 70**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl, esters, 2-methyl-2-propenoate, homopolymer [77931–80-7]

**Sucrolin**

See Lignin, compounds, hydrolytic [8072–93-3]

**Sucronic acid**

See Glycine, N-[(4-cyanophenylamino)(cyclohexylamino)methylene]- [116869–55-7]

**Sucrose**

See  $\alpha$ -D-Glucopyranoside,  $\beta$ -D-fructofuranosyl [57–60-1]

**Sucrose acetate isobutyrate**

See  $\alpha$ -D-Glucopyranoside, 6-O-acetyl-1,3,4-tris-(O-(2-methyl-1-oxopropyl)- $\beta$ -D-fructofuranosyl, 6-acetate

2,3,4-tris(2-methylpropanoate) [126–13-6]

**Sucrose  $\alpha$ -glucosylolase**

See Glucosidase, sucrose  $\alpha$ - [37288–39-4]

**Sucrose phosphate synthetase**

See Glucosyltransferase, uridine diphosphoglucose-fructose phosphate [9030–06-2]

**Sucrose phosphate-uridine diphosphate glucosyltransferase**

See Glucosyltransferase, uridine diphosphoglucose-fructose phosphate [9030–06-2]

**Sucrose synthetase**

See Glucosyltransferase, uridine diphosphoglucose-fructose [9030–05-1]

**Sucrose-uridine diphosphate glucosyltransferase**

See Glucosyltransferase, uridine diphosphoglucose-fructose [9030–05-1]

**Sucrosolate potassium**

See  $\alpha$ -D-Glucopyranoside, 1,3,4,6-tetra-O-sulfo- $\beta$ -D-fructofuranosyl, tetrakis(hydrogen sulfate), octapotassium salt [73264–44-5]

**SUD**

See Phosphonothioic acid, phenyl-, O-(4-cyanophenyl) O-ethyl ester [13067–93-1]

**Sudachiin A**

See 4H-1-Benzopyran-4-one, 2-[4-( $\beta$ -D-glucopyranosyloxy)-3-methoxyphenyl]-5,7-dihydroxy-6,8-dimethoxy- [70575–17-6]

**Sudachiin B**

See 4H-1-Benzopyran-4-one, 2-[4-[6-O-(4-carboxy-3-hydroxy-3-methyl-1-oxobutyl)- $\beta$ -D-glucopyranosyloxy]-3-methoxyphenyl]-5,7-dihydroxy-6,8-dimethoxy- [98891–96-4]